

US 1984-610223  
US 1985-780547A1 19840514  
A1 19850926

OTHER SOURCE(S): MARPAT 102:132065

AB Pyrimidinylureas I [R = (un)substituted Ph, furanyl, pyridinyl, pyrrolyl, thienyl; R1 = H, alkyl, alkenyl; R2 = alkenyl, alkynyl, halo, NO<sub>2</sub>, CHO, amino, cyano, alkoxy carbonyl, R<sub>5</sub>S(O)<sub>n</sub>, (un)substituted alkyl, alkoxy; R3, R4 = H, halo, amino, alkylthio, cyclopropyl, (un)substituted alkyl, alkoxy; R<sub>3</sub>R<sub>4</sub> = atoms required to complete a fused carbocyclic or heterocyclic ring of 4-6 members; R<sub>5</sub> = alkyl; X = O, S; n = 0-2] were prepared. Thus, MeCH(CO<sub>2</sub>Me)<sub>2</sub> was cyclocondensed with (H<sub>2</sub>N)<sub>2</sub>CO to give 5-methylbarbituric acid. This was chlorinated with POCl<sub>3</sub> and treated with NH<sub>3</sub> to give 4-amino-2,6-dichloro-5-methylpyrimidine which was heated at 120° with NaOMe to give 4-amino-2,6-dimethoxy-5-methylpyrimidine. This was condensed with 2-OCNSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>Me to give II. I are effective pre-emergent herbicides against, e.g., Nasturtium officinalis at 70.8 ppm.

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(FILE 'HOME' ENTERED AT 14:52:10 ON 02 AUG 2007)

FILE 'REGISTRY' ENTERED AT 14:53:05 ON 02 AUG 2007

L1 STR  
 L2 1 SEA SSS SAM L1  
     D SCA  
 L3 1397568 SEA ABB=ON PLU=ON SC4/ESS  
 L4 0 SEA SUB=L3 SSS SAM L1  
 L5 761 SEA SUB=L3 SSS FUL L1  
 L6 STR L1  
 L7 29 SEA SUB=L5 SSS SAM L6

FILE 'CAPLUS' ENTERED AT 15:33:20 ON 02 AUG 2007

L8 12 SEA ABB=ON PLU=ON L5  
     S L6

FILE 'REGISTRY' ENTERED AT 15:33:40 ON 02 AUG 2007

L9 629 SEA SUB=L5 SSS FUL L6

FILE 'CAPLUS' ENTERED AT 15:33:40 ON 02 AUG 2007

L10 1 SEA ABB=ON PLU=ON L9  
     D COST

FILE 'REGISTRY' ENTERED AT 15:33:55 ON 02 AUG 2007

L11 629 SEA SUB=L5 SSS FUL L6

FILE 'CAPLUS' ENTERED AT 15:34:07 ON 02 AUG 2007

L12 1 SEA ABB=ON PLU=ON L11  
 L13 11 SEA ABB=ON PLU=ON L5 NOT L11

FILE 'REGISTRY' ENTERED AT 15:34:30 ON 02 AUG 2007

L14 132 SEA ABB=ON PLU=ON L5 NOT L11

FILE 'BEILSTEIN' ENTERED AT 15:35:33 ON 02 AUG 2007

L15 0 SEA SSS SAM L6  
 L16 QUE ABB=ON PLU=ON L6  
 L17 STR L6  
 L18 0 SEA SSS SAM L17  
 L19 STR

L20 0 SEA SSS SAM L17 AND L19  
 L21 0 SEA SSS FUL L17 AND L19

FILE 'MARPAT' ENTERED AT 15:39:04 ON 02 AUG 2007  
 L22 STR L17  
 L23 0 SEA SSS SAM L22  
 L24 7 SEA SSS FUL L22  
 L25 5 SEA ABB=ON PLU=ON L24/COM

FILE 'CAPLUS' ENTERED AT 15:42:02 ON 02 AUG 2007  
 E EHRENFREUND J/AU  
 L26 102 SEA ABB=ON PLU=ON ("EHRENFREUND J"/AU OR "EHRENFREUND JOSEF"/AU OR "EHRENFREUND JOSEPH"/AU)  
 E TOBLER H/AU  
 L27 125 SEA ABB=ON PLU=ON ("TOBLER H"/AU OR "TOBLER H GARETH"/AU OR "TOBLER H J"/AU OR "TOBLER H P"/AU OR "TOBLER HANS"/AU OR "TOBLER HANS J"/AU OR "TOBLER HANS JAKOB"/AU OR "TOBLER HANS PETER"/AU OR "TOBLER HANSPETER"/AU)  
 E WALTER H/AU  
 L28 462 SEA ABB=ON PLU=ON ("WALTER H"/AU OR "WALTER H A JR"/AU OR "WALTER H C"/AU OR "WALTER H E"/AU OR "WALTER H F"/AU OR "WALTER H G"/AU OR "WALTER H H"/AU OR "WALTER H J"/AU OR "WALTER H K"/AU OR "WALTER H KRISTIAN"/AU OR "WALTER H L"/AU OR "WALTER H M"/AU OR "WALTER H M D"/AU OR "WALTER H P"/AU OR "WALTER H R"/AU OR "WALTER H S"/AU OR "WALTER H STEVENS"/AU OR "WALTER H U"/AU OR "WALTER H W"/AU OR "WALTER HARALD"/AU OR "WALTER HAROLD J"/AU)  
 L29 38 SEA ABB=ON PLU=ON (26 AND (L27 OR L28)) OR (L27 AND L28)  
 L30 70 SEA ABB=ON PLU=ON (L26 OR L27 OR L28) AND (?CYCLOALK? OR ?CYCLOPROP?)  
 L31 27 SEA ABB=ON PLU=ON (L26 OR L27 OR L28) AND ?CYCLOPROP?  
 L32 12 SEA ABB=ON PLU=ON L31 AND L29  
 L33 26 SEA ABB=ON PLU=ON L31 NOT L12

FILE 'CAPLUS' ENTERED AT 15:46:17 ON 02 AUG 2007  
 D QUE L12  
 D L12 IBIB ABS HITSTR TOT

FILE 'BEILSTEIN' ENTERED AT 15:46:49 ON 02 AUG 2007  
 D QUE L21

FILE 'MARPAT' ENTERED AT 15:46:56 ON 02 AUG 2007  
 L34 4 SEA ABB=ON PLU=ON L25 NOT L12  
 D QUE  
 D L34 IBIB ABS QHIT TOT

FILE 'CAPLUS' ENTERED AT 15:47:38 ON 02 AUG 2007  
 D QUE L33  
 D L33 IBIB AB TOT